## **CLAIMS**

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1. A liquid bag which is characterized by providing:

a bag main body for containing a liquid, the bag main
body constructed of a flexible thermoplastic resin sheet; and

a mouth member constructed of a thermoplastic resin, the mouth member sealingly bonded to a part of a periphery of the bag main body,

the mouth member having a sleeve-like seal portion sealingly bonded to the bag main body, the seal portion including a first flow path and a second flow path, the first flow path opening and extending along the periphery of the bag main body, the second flow path opening at a bottom surface of the seal portion to an inside of the bag main body.

- The liquid bag as set forth in claim 1, wherein the first
   flow path is bent in a substantially L shape in an inside of the seal portion.
  - 3. The liquid bag as set forth in claim 1 or 2, wherein opposed parts of the sheet of the main body are heat-welded to form a partitioning welded-joint for partitioning the bag main body into a first space section communicating with the first flow path and a second space section communicating with the second flow path.
  - 4. The liquid bag as set forth in claim 3, wherein a communication path is formed in a part of the partitioning welded-joint for allowing communication between the first

space section and the second space section.

- 5. The liquid bag as set forth in claim 4, wherein the communication path is constituted of a large number of fine paths.
- 5 6. The liquid bag as set forth in any one of claims 1 to 5, wherein the mouth member further comprises a duct portion from which the seal portion extends, the duct portion having a first duct portion communicating with the first flow path and a second duct portion communicating with the second flow path.
- 7. The liquid bag as set forth in claim 6, wherein the second duct portion has a tube-connecting port connectable to an elastic tube, the tube-connecting port having a distal end sealingly welded in such a way as to allow twist-off opening.
- 8. The liquid bag as set forth in claim 6 or 7, wherein the second duct portion has a pipe-connecting port connectable to a pipe for flowing a liquid and/or gas, and wherein an opening of the first duct portion and the pipe-connecting port of the second duct portion are respectively closed with films heat-welded thereon.
- 20 9. A mouth member for a liquid bag, the mouth member comprising: a sleeve-like seal portion to be sealingly bonded to a part of a periphery of a bag main body for containing a liquid, the seal portion including a first flow path and a second flow path, wherein the mouth member is characterized in that the
  25 first flow path opens at a side surface of the seal portion and

that the second flow path opens at a bottom surface of the seal portion.

- 10. The mouth member for a liquid bag as set forth in claim 9, wherein the first flow path is bent in a substantially L shape in an inside of the seal portion.
- 11. The mouth member for a liquid bag as set forth in claim 9 or 10, further comprising a duct portion from which the seal portion extends, the duct portion having a first duct portion for communicating with the first flow path and a second duct portion for communicating with the second flow path.

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- 12. The mouth member for a liquid bag as set forth in claim 11, wherein the second duct portion has a tube-connecting port connectable to an elastic tube, the tube-connecting port having a distal end sealingly welded in such a way as to allow twist-off opening.
- 13. The mouth member for a liquid bag as set forth in claim 11 or 12, wherein the second duct portion has a pipe-connecting port connectable to a pipe for flowing a liquid and/or gas, and wherein an opening of the first duct portion and the pipe-connecting port of the second duct portion are respectively closed with films heat-welded thereon.
- 14. A method of producing a mouth member for a liquid bag by injection-molding, the mouth member comprising:
- a sleeve-like seal portion sealingly bonded to a part of

a periphery of a bag main body for containing a liquid,
a duct portion from which the seal portion extends,

a flow path bent in the duct portion, the method being characterized by comprising:

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integrally forming, by injection-molding, a thin-walled weak cylindrical portion joined to a distal opening of the duct portion, a cylindrical body portion joined to a distal end of the weak portion, and a redundant portion provided adjacent to a distal opening of the body portion; and

melting the redundant portion with heat, after the injection molding, to hermetically seal the distal opening of the body portion with the molten redundant portion so that the distal opening of the duct portion is closed in a manner capable of being opened by applying a force.